

Amendments to the Abstract

In fiber reinforced resin composite material, in order to reduce a coefficient of linear expansion to a relatively small number, particularly to zero, two kind or more kinds of reinforced fibers are combined, wherein at least one reinforced fiber with a negative coefficient of linear expansion is and a matrix resin are included, prepreg sheet formed them are by the fibers is laminated so as to provide in-plane quasi-isotropic plate. Thus, a total coefficient of linear expansion of fiber reinforced resin composite material is controlled to zero by the matrix resin.

— A coefficient of linear expansion of doubling yarn and combing wool combined by two kind or more than kinds of reinforced fibers is controlled, a coefficient of linear expansion of prepreg sheet formed by these fiber bundles is controlled or a coefficient of linear expansion of fiber bundles formed by two kinds or more than kinds of reinforced fibers is controlled by previously controlling the coefficient of linear expansion of the fiber bundles and considering an influence caused by a three dimensional structure of doubling yarn and textile. As a result, the coefficient of linear expansion of the composite material can be reduced to as small a number as less as possible.